



Hecla Mining Company

ESCALANTE UNIT

December 1, 1988

Mr. Lowell Braxton
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

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Dear Mr. Braxton,

DIVISION OF OIL, GAS & MINING

Pursuant to the preliminary inspection conducted by your staff yesterday we are submitting the following reclamation plans for your approval. This is only a partial list containing those items we hope to work on during December, 1988.

<u>Item</u>	<u>Description</u>	<u>Reclamation Plans</u>
1. So. Vent Raise	10' x 10' x 370' deep	Fill with waste rock to the level at which a reinforced concrete plug will be installed. The bottom of the plug will be a minimum of 10' beneath the surface and will be anchored in competent ground and built to UDOGM specifications. (We would propose 1" rebar on 12" centers set 2' into competent rock located in the bottom third of a 2' thick concrete plug). The plug would then be covered with waste rock and filled to the surface, covered with topsoil and reseeded.
2. No. Vent Raise	10' x 10' x 130' deep	
3. Old Inclined Shaft	7' x 5' x 120' deep. 70 Deg. Incline	Block off the shaft near the 5125 level using steel beams and timber. Fill with waste rock to the surface unless a concrete plug is required by UDOGM. 6" wide-flange beams spaced 1' apart crossed with 8" x 8" timbers will be used to block off the 4' x 4' shaft opening. If a plug is required it would be installed as per UDOGM specifications. (We would propose plug specifications identical to items 1 and 2 above.) The filled shaft would then be covered with topsoil and reseeded.

M/021/004
File Copy
(2 maps
to be placed
in MRP)

Item	Description	Reclamation Plans
4. Old Manway	7' x 5' x 35' into an open stope.	Install a reinforced concrete plug a minimum of 10' beneath the surface. The plug will be anchored in competent ground and installed as per UDOGM specifications. (We would propose plug specifications identical to items 1 and 2 above.) The plug would then be covered with waste rock and filled to the surface. This area would then be covered with topsoil and reseeded.
5. Decline	11' x 17' @ 14% grade	Install a steel bulk head with a locked mandoor 30' from the portal into the decline. At a later date the decline would be filled with waste rock from the bulkhead to surface. The portal area will be recontoured, covered with topsoil and reseeded. The bulkhead will be of 1/2" steel plate supported by a grid of 6" wide flange beams on a 5'h x 8'w pattern. This support grid will be anchored with 7/8" dia. x 5' solid epoxy anchored rock bolts spaced about 3.5' apart.
6. Old Shaft (Prospect) Holes		Your staff did not feel Hecla Mining Company was responsible for reclaiming those workings which predated our involvement here. However, in the interest of public safety, we would agree to push in on-site material which we can reasonably access with our equipment.
7. Surface drill holes & Casing larger than 2 1/2"	6" Surface Blastholes	Install a 5' concrete plug. Casings would be cut off as low as practical and the plug would be kept low enough to permit covering with topsoil and reseeded.

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I have included a long section of the mine and a plan view of most of the facility. As-built records of the above reclamation will be kept and available at your request.

The last day of work for our mining crew will be December 30, 1988. We expect to have manpower available through December to accomplish much of the above. Your rapid response to this proposal would be very much appreciated.

Thank you for your cooperation.

Sincerely,



Scott N. Hartman
Unit Manager
Hecla Mining Company
Escalante Unit.